Softwood product description

	T	T	
Log	Diameter	Diameter	Lengths
Class	Class (cm)	mm	m
S	10, 12	80 - 129	1.8, 2.1, 2.4, 3.0, 3.3
А	13.5, 15,	130 - 179	1.8, 2.1, 2.4, 3.0, 3.3
	17		
B1	19, 21, 23,	180 - 259	1.8, 2.1, 2.4, 3.0, 3.3
	25		
B2	19, 21, 23,	180 - 259	3.6, 3.9, 4.2, 4.5, 4.8, 5.1, 5.4, 5.7, 6.0, 6.3, 6.6
	25		
C1	27, 29, 31,	260 - 339	1.8, 2.1, 2.4, 3.0, 3.3
	33		
C2	27, 29, 31,	260 - 339	3.6, 3.9, 4.2, 4.5, 4.8, 5.1, 5.4, 5.7, 6.0, 6.3, 6.6
	33		
D1	35 +	340 +	1.8, 2.1, 2.4, 3.0, 3.3
D2	35 +	340 +	3.6, 3.9, 4.2, 4.5, 4.8, 5.1, 5.4, 5.7, 6.0, 6.3, 6.6
Butt log	27 +	260 +	1.8m +

1. Pine sawlog and low grade log classes

Short log class 1.8m - 3.3m

Long log class 3.6m – 6.6m

2. Pine Sawlog

		S		S A		В				C	2		D						
		10	12	13	15	17		21	23	25	27	29	31	33	35	37	39	41	430
		0	0	5	0	0	190	0	0	0	0	0	0	0	0	0	0	0	+
Maximum sweep	Long						20	20	30	30	40	40	50	50	60	60	70	70	80
or crook (mm)	Short	20	20	20	20	20	30	30	40	40	50	50	60	60	70	70	80	80	80
Large knots NOT allowed in	Long						1	>	60 m	m					1 >	80 mn	n		
200mm							3	>	50 m	m					1>	60 mn	n+1>	>50 m	m
stem length															1>	60 mn	n+3>	> 40 m	nm
															4 >	50 mn	n		
							1 > 90												
	Short			1>	70 mr	n	mm	m											
							1 > 70 mi	n + 1 :	> 50 m	m									
							1 > 70 m	n + 3 :	> 40 m	m									
Knot Clusters	Long			Clust	ers > 3	8/4 d.	o.b not allov	ved.											
Clusters = sum of	Short			Clust	er > d.	o.b.	1 allowed i	n 1.8n	n + log	S									
diams. of knots							2 allowed i	n 2.4n	n + log	S									
> 12 mm in																			
200mm							3 allowed i	n 3.0n	n + log	S									
stem length																			
d.o.b. = diam																			
over																			
bark just above																			
knot cluster																			
Eccentricity	Long			Long	est rac	lius m	ust not be >	2 x sł	ortest	: radiu	IS.								
	Shot			No lii	nit														

3. Butt log

- Pruned and partially pruned logs.
- 26cm + thin end diameter.
- No knot clusters allowed.
- Knots, sweep and eccentricity similar to that of the saw log description.

4. Pine Low grade

		S			А			E	3			(2				D		
		100	120	135	150	170	190	210	230	250	270	290	310	330	350	370	390	410	430 +
Maximum sweep	Long						40	40	60	60	70	70	80	80	90	90	100	100	110
or crook (mm)	Short	30	30	40	40	40	60	60	70	70	80	80	90	90	100	100	110	110	110
Large knots NOT	Long	No limi	t																
allowed in 200mm																			
stem length																			
	Short	No limit																	
	511011	iiiiii																	
Knot Clusters	Long	No limi	t																
Clusters = sum of	Short	No limi	t																
diams. of knots																			
> 12 mm in 200mm																			
stem length																			
d.o.b. = diam over																			
bark just above																			
knot cluster																			

Eccentricity	Long	No limit
	Shot	No limit

• Some of the material will be dry and have blue stain.

5. Pole definition

5.1. Specifications

Pinus Radiata and Pinaster poles to comply with SABS 457 and SABS 753: 1994 specifications as amended from time to time.

5.2. Trimming Allowance

Trimming allowance of <u>up to</u> 100mm shall be added to ensure that poles are of nominal length.

5.3. Pole Cutting List

LENGTH				DIAMETE	R CLASSES			
	50-79	80-99	100-119	120-139	140-159	160-179	180-199	200-219
1.8		Х	Х	Х				
2.1	Х	Х	Х	Х				
2.4	Х	Х	Х	Х				
3.0		Х	Х	Х	Х			
3.6		Х	Х	Х	Х			
4.2		Х	Х	Х	Х			
4.8		Х	Х	Х	Х			
5.4		Х	Х	Х	Х			
6		Х	Х	Х	Х	Х		
7		Х	Х	Х	Х	Х		
8		Х	Х	Х	Х	Х		
9				Х	Х	Х		
10					Х	Х	Х	
11					Х	Х	Х	Х
12					Х	Х	Х	х
13					Х	Х	Х	Х
14						Х	Х	Х

Building and Fencing poles	1.8m – 4.8m lengths
Telephone poles	5.4m – 7.0m lengths
Transmission poles	8.0m – 14.0m lengths

6. Volume calculations

Volumes of poles as described in paragraph 1, are calculated by computer using the following formula for Pinus species which was in use prior to 1995 to calculate volume tables generally used in South Africa:

Mid diameter in cm = thin end diameter in cm + (length in m x 0.7)

2

Volume in $m^3 = (mid \ diameter \ in \ cm)^2 \ x \ 3.14159 \ x \ length \ in \ m$

40 000

This volume is then rounded off to three decimal places.